



Pôle Mer



BRETAGNE / PACA

Maritime Competitiveness Clusters

**CSA Marinebiotech conference
Brussels, 11-12 March 2013**

www.pole-mer.com



LES PÔLES DE  COMPÉTITIVITÉ
MOTEURS DE CROISSANCE ET D'EMPLOI



Marine science and technology clusters
located in Brittany and Provence,
certified by the French Government and
local authorities

Operational since 2005



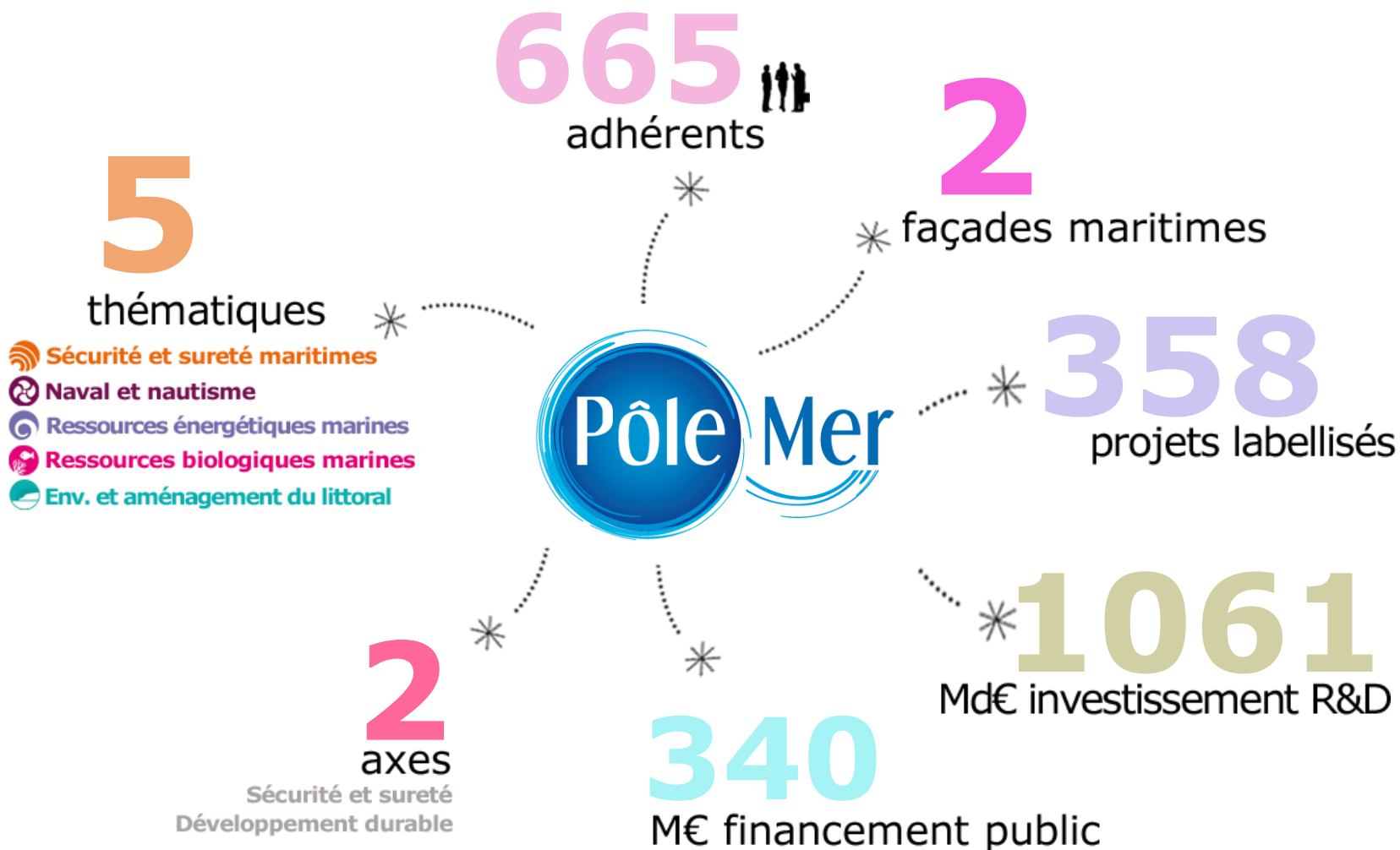
Pôles de compétitivité ?



- « **ambition** » : exploit innovation to generate economic activity and jobs
- « **vocation** » : stimulate and support collaborative projects involving both companies and research labs



Key figures for Pôles Mer



Objectives and working priorities of Committee 4 : Marine biological resources

La mer, source d'innovation
et de développement économique

- **Sustainable fishing**
vessels, energy saving, **complete exploitation of catches and by-products**
- **Sustainable aquaculture**
production, quality, environmental risks...
- **Biotechnologies** : from biomass to markets, the complete **added value chain**

economical, social
environmental

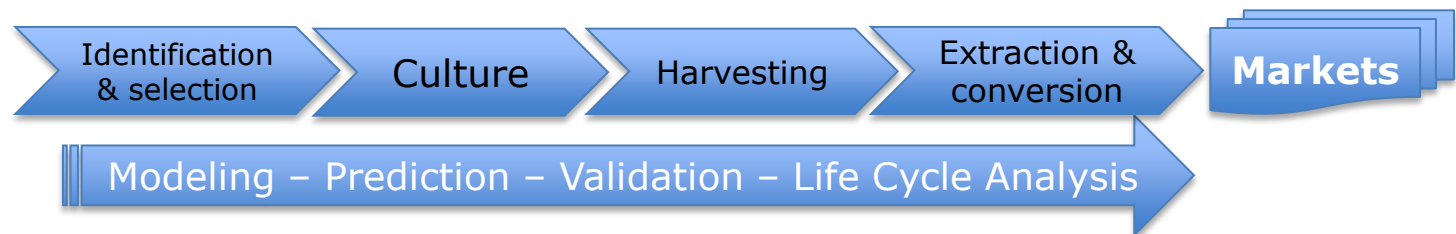




Marine/Blue biotechnologies

- from the excellence of **knowledge and knowhow** to the **economical and sustainable development** of marine biomass
- development of molecules & actives with **high added value**

Fishing – collecting – use of space – bioreactors – processes – better **knowledge** – knowhow – **actives** – **functioning** – lipids – proteins – antibacterial- anti-infectious- antioxidants – regenerating- texturing- production – detection – extraction – purification – testing – validation – **formulation** – exploitation – **markets** – healthy food – healthy feed – cosmetics – pharmaceuticals – medicine – biomaterials – green chemistry – green materials – energy – environment – biocaptors ...



+ **use and promote regional tools and services :**
regional dynamics CAPBIOTEK , Bluecluster, technological platforms (Biogenouest, Corsaire...), European projects (Biotecmar, Sharebiotech...)



Role of Pôle Mer: **networking and support to innovative collaborative projects**

- **Enterprises + Research + Training**
plenary sessions and working groups
- Emergence of **innovative collaborative projects**
- **Certification and funding**
- Support to implementation and follow-up
- **Exploitation of the results** : conferences, fairs, international meetings and fairs, press

→ Development of knowledge and know-hows, competitiveness,
economical development and businesses/jobs

Examples of collaborative projects



SEALACIAN



From living fossil to future medicine

PARTENAIRES

C.RIS Pharma, Saint-Malo
Innova Proteomics, Rennes

Laboratoire Pe2m, Caen
Université de Caen
ENSCR, Rennes

LABELLISATION

27/01/2006

CO LABELLISATION

BUDGET GLOBAL

1 985 k€

FINANCEURS

Fonds Unique Interministériel
Conseil Régional de Bretagne
Conseil général d'Ille-et-Vilaine
Saint-Malo Agglomération
Rennes Métropole

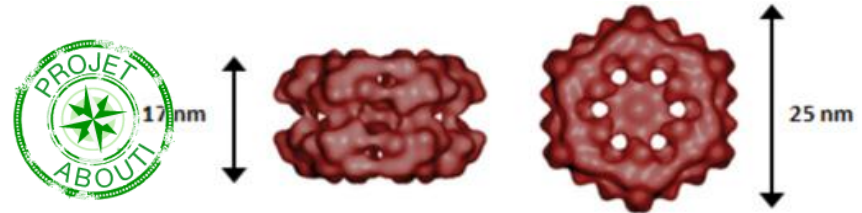
RETOMBÉES

- Identification of 4 molecules with anticancer properties in dogfish
- preclinical Research and development of the molecules



HEMORGAN

*Using marine worm haemoglobin
for donor organ conservation*



Reconstruction tridimensionnelle de Hemarina M101.
Macromolécule de 3,6MDa capable de fixer 156
molécules d'O₂ en même temps.

PARTENAIRES

Hemarina SA, Morlaix

Station biologique de Roscoff, Roscoff
Centre Hospitalier Universitaire, Poitiers

LABELLISATION

20/04/2007

CO LABELLISATION

BUDGET GLOBAL

3 027 k€

FINANCEURS

Agence Nationale de la
Recherche

Conseil régional de Bretagne
Conseil général du Finistère

RETOMBÉES

- a **new solution Hemo2life** (improve quality of grafts awaiting transplant)
- **5 patents**
- creation of **17 jobs** during project
- **publications** « American Journal of Transplantation »
- **6 presentations** at scientific symposium
- **commercial contract** with Keocyt (distribution in Europe)
- **authorization** from the National Drug Safety Agency to market the product



ODONTOMER



Preservative-free oral and dental hygiene products based on marine active substances

PARTENAIRES

YSLAB, Quimper
Algues et Mer, Ouessant

UPRES EA 1254, Université de Rennes 1
UPRES EA 1274, Université de Rennes 2

LABELLISATION

27/06/2008

CO LABELLISATION

BUDGET GLOBAL

479 k€

FINANCEURS

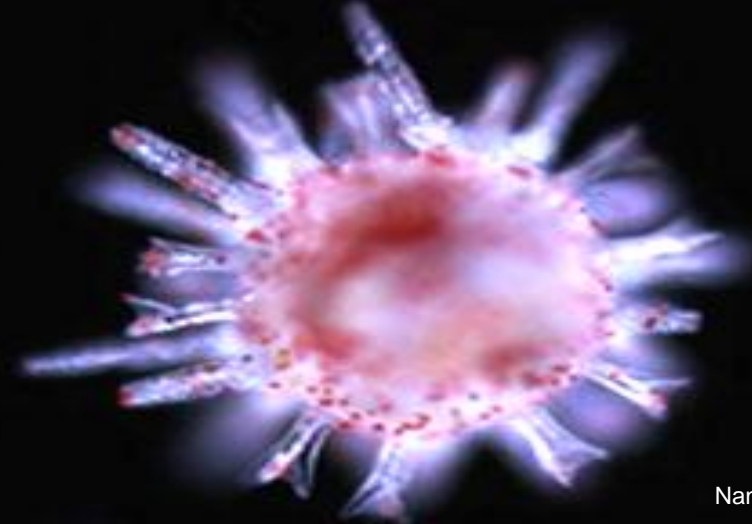
OSEO Innovation
Conseil régional de Bretagne
Conseil général du Finistère
Conseil général d'Ille et Vilaine
Rennes Métropole

RETOMBÉES

-2 oral and dental hygiene products : toothpaste and mouthwash containing algal extracts
-creation of 4 jobs
-Publication International conference on infectious diseases (December 2011)



**Thank you for
your attention !**



Nanomerc

Further information :

www.pole-mer-bretagne.com

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